



NOTE:-
 250 Ø SEWER LINE 1:190
 150 Ø SEWER LINE 1:100
 100 Ø SEWER LINE 1:150

Greater Noida Industrial Dev. Authority
APPROVED
 Valid upto Date: 27/12/2012
 Gen. Manager (P. & Arch.)

AREA CALCULATIONS:-
 TOTAL PLOT AREA = 33941.79 SQ. M.
 NUMBER OF DWELLING UNITS = 1086
 TOTAL POPULATION = 5193 PERSONS

SEWERAGE:-
 TOTAL POPULATION = 5193
 AVG. DISCHARGE @ 135 LIT/HEAD/DAY
 = 5193 X 135 = 7,01,055 LIT.
 PEAK DISCHARGE = 3 X 7,01,055 = 2,103,165 LIT.
 SUBSOIL FILTRATION = 45 X 5193 = 2,336,850 LIT.
 TOTAL = 2,336,850 LIT.
 = 23.36 x 10⁻³ m³ /sec.

CAPACITY OF 250 MM Ø SEWER :-
 $S = 1:190, m = \frac{27\sqrt{d}}{8\sqrt{kd}} = d/4 = 0.25 \text{ m}, n = 0.015$

$$v = \frac{1}{4} \times \frac{m}{n} \times \frac{2}{3} \times \frac{5}{4} = \frac{1}{0.015} \times (0.0625)^{2/3} \times \frac{1}{190}$$

$$= 0.76 \text{ m/sec}$$

$$c = \frac{av}{8} \times \frac{\pi d^2}{4} \times 0.76 = \frac{\pi \times 0.25^2 \times 0.76}{4} \times 0.76$$

$$= 0.0186 \text{ cu.m/sec.} > 0.01077 \text{ cu.m/sec.}$$

• 250 mm Ø SEWER PIPE IS O.K.

SIGNING AUTHORITY

Capital Infratechomes Pvt. Ltd.
 Authorized Signatory

ARCHITECTS SIGN

PANKAJ NATH ANDLEY
 B. ARCH. A.I.A.
 ARCHITECT CA/9924866

SUBMISSION DRAWING

PROJECT:-
**GROUP HOUSING FOR
 M/s. CAPITAL INFRA TECHOMES
 PVT. LTD.**
 PLOT NO. GH-12A-2, SECTOR-1,
 GREATER NOIDA. (U.P.)

DRG. TITLE: SERVICE PLAN (SHOWING SEWER) NORTH

SCALE:- 1:100 DRG. NO.: 20

DATE: 18/12/2012

ARCHITECTS:-
 P. N. ANDLEY B. ARCH. A.I.A.
ANDLEYS ASSOCIATES PVT. LTD.
 ARCHITECTS ENGINEERS PLANNERS
 39 HOUSING SOCIETY N.D.S.E.I NEW DELHI - 110049